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NOTICE OF ALLOWANCE AND FEE(S) DUE

23569 7590 11/28/2008

11/28/2008

SCHNEIDER ELECTRIC / SQUARE D COMPANY LEGAL DEPT. - I.P. GROUP

1415 S. ROSELLE ROAD PALATINE, IL 60067 EXAMINER NGUYEN, DUSTIN

ART UNIT PAPER NUMBER

2454 DATE MAILED: 11/28/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,888	03/02/2002	Ron Naismith	SAA-0046-1	9721

TITLE OF INVENTION: INPUT/OUTPUT (I/O) SCANNER FOR A CONTROL SYSTEM WITH PEER DETERMINATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance nerwise in Block 1, by	orders and notification of (a) specifying a new con-	maintenance fees espondence address	will be ; and/o	mailed to the current r (b) indicating a sep	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				ote: A certificate of ee(s) Transmittal. The pers. Each addition tye its own certificat	mailin is certi al paper e of ma	g can only be used for ficate cannot be used in the can assignmental in the can fine or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must
23899 7590 11/28/2008 SCHNEIDER ELECTRIC / SQUARE D COMPANY LEGAL DEPT LP. GROUP 1415 S. ROSELLE ROAD				The to the Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPIO (27) 127-22885, on the date indicated between			
PALATINE, IL	60067						(Depositor's name)
			L				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/02/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	_			
NGUYEN		2454	709-245000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attacked. Fee Address' indication (or "Fee Address" indication form PTO/SB/47 we 0.302 or more recent) attached. Use of a Custome Number is required. Namber is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O			registered attorney of 2 registered patent at listed, no name will by THE PATENT (print or	to 3 registered pate tively, gle firm (having as r agent) and the nan torneys or agents. If we printed.	a memb nes of u no nan	per a 2proto	
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4a. The following fee(s) Issue Fee Publication Fee (N Advance Order -	vo small entity discount p		4b. Payment of Fee(s): (Pl A check is enclosed Payment by credit of The Director is here overpayment, to De	ard. Form PTO-203	3 is atta	ached.	shown above) eficiency, or credit any nextra copy of this form).
- 11	s SMALL ENTITY state	as. See 37 CFR I.27.	b. Applicant is no le				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accep tes Patent and Tradema	ted from anyone other that rk Office.	the applicant; a reg	istered	attorney or agent; or t	ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration	No		
This collection of inform an application. Confiden submitting the complete this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC k13-1450.	CFR 1.311. The informa U.S.C. 122 and 37 CF USPTO. Time will varden, should be sent to O NOT SEND FEES OF	tion is required to obtain of R 1.14. This collection is rry depending upon the inc the Chief Information Off R COMPLETED FORMS	r retain a benefit by estimated to take 12 lividual case. Any c icer, U.S. Patent and TO THIS ADDRES	the pub minute ommen Trader S. SEN	lic which is to file (an s to complete, includi ts on the amount of ti mark Office, U.S. Dep D TO: Commissioner	d by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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0 11/28/2008		EXAMINER			
SCHNEIDER ELECTRIC / SQUARE D COMPANY			NGUYEN, DUSTIN		
LEGAL DEPT I.P. GROUP			PAPER NUMBER		
ROAD 167		2454			
	03/02/2002 0 11/28/2008 ECTRIC / SQUARE P. GROUP ROAD	03/02/2002 Ron Naismith 11/28/2008 ECTRIC / SQUARE D COMPANY P. GROUP ROAD	0302/2002 Ron Naismith SAA-0046-1 0 11/28/2008 EXAN ECTRIC / SQUARE D COMPANY NGUYEN P. GROUP ART UNIT 244		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1091 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1091 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/087,888	NAISMITH ET AL.
Examiner	Art Unit
DUSTIN NGUVEN	2454

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 09/11/2008. The allowed claim(s) is/are 1, 2, 4-12, 14-18, now renumbered as 1-16. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) \square All b) Some* c) None of the: 1.

Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No.

3.
☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has	THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements
noted below.	Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE	-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date

(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)

Notice of Draftperson's Patent Drawing Review (PTO-948)

3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 09/11/2008

 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. Notice of Informal Patent Application

Interview Summary (PTO-413), Paper No./Mail Date

7. X Examiner's Amendment/Comment

8. T Examiner's Statement of Reasons for Allowance 9. ☐ Other

/Dustin Nguyen/

Primary Examiner, Art Unit 2454

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Art Unit: 2454

EXAMINER'S AMENDMENT

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on 09/11/2008 has been entered.

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicants' attorney, Mr. William Allen on 11/18/2008.

Please amend claims 1, 3, 9, 13, and 19-36 as follows:

1. (Currently Amended) A method comprising the steps of:

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Art Unit: 2454

providing a first device on a first node of a communications network, the first device configured to connect to and scan I/O devices:

providing a second device on a second node of the communications network, the second device configured to connect to and scan the I/O devices;

assigning a first address to a the first node and a second address to a the second node, wherein the first address is characteristic of a primary mode of operation;

initiating from the first node a first communications command in a peer protocol format addressed to the second node;

initiating from the second node a second communications command in the peer protocol format addressed to the first node;

identifying the second device on the second node as a peer device within the first device on the first node responsive to receiving the second communications command at the first node;

identifying the first device on the first node as a peer device within the second device on the second node responsive to receiving the first communications command at the second node; wherein the peer device is a programmable logic controller (PLC) device:

scanning the I/O devices by the first device on the first node;

determining that the first node is inoperable;

initiating at the second node an exchange of the first address and the second address responsive to determining that the first node is inoperable;

resetting a connection between the first device and the I/O devices responsive to determining that the first node is inoperable; and

assigning the first address to the second node and the second address to the first node responsive to initiating the exchange.

3. (Cancelled).

9. (Currently Amended) A device scanner for a first device located on a first node of a standard communications network configured to connect to and scan I/O devices on a communications network, the device scanner comprising:

a network module for receiving a first address assigned to the first node, wherein the first address is characteristic of a primary mode of operation;

an initiator for initiating a first communications command in a peer protocol format addressed to a second node;

a receptor for receiving from the second node a second communications command in the peer protocol format, in response to the first communications command, and for receiving from the second node a communications command to exchange the first address with a second address assigned to the second node; and

an identifier for identifying a second device on the second node as a peer device, wherein the peer device is a programmable logic controller (PLC) device, and wherein the network module is configured to reset connections from the device scanner to the I/O devices prior to exchange of the first address with the second address such that the first node is assigned the second address responsive to the exchange. Application/Control Number: 10/087,888

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13. (Cancelled).

19-36. (Cancelled).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DUSTIN NGUYEN whose telephone number is (571)272-3971.

The examiner can normally be reached on flex schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Flynn Nathan can be reached on (571) 272-1915. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR $\,$

 $system, see \ http://pair-direct.uspto.gov. \ Should \ you \ have \ questions \ on \ access \ to \ the \ Private \ PAIR$

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dustin Nguven/

Primary Examiner, Art Unit 2454

Application/Control Number: 10/087,888

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